

Appl. No.: 09/745,290  
Filed: December 20, 2000  
Amdt. dated 05/13/2005

Amendments to the Claims:

1. (Currently Amended) A method comprising:  
altering portions of a text of an original version of a digital document to produce a revised version of the digital document in which the text is shorter than the text of the original document, the altering being done based on preferences a set of at least one preference, the set of at least one preference being associated with a device and independent of an association with the digital document,  
receiving over a communication channel a request for the digital document from the device, and  
transmitting the revised version over the communication channel in response to the request.
2. (Original) The method of Claim 1 in which altering portions of the text includes applying more than one transformation selectively to the text.
3. (Original) The method of Claim 1 also including selecting transformations to be applied to the text as part of the altering step, based on preferences associated with the device.
4. (Original) The method of Claim 3 in which the preferences are associated with the device based on a unique identifier of the device.
5. (Original) The method of Claim 3 in which the preferences are stored in advance of the request for a document.
6. (Original) The method of Claim 3 in which the preferences are stored in a database associated with a server.
7. (Original) The method of Claim 3 in which the preferences are indicated by the user through the interface of the device.

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8. (Original) The method of Claim 3 in which the preferences are indicated by the user through the interface of a device other than the device from which the request for the digital document is made.

9. (Original) The method of Claim 3 in which the preferences are indicated on a form provided from a server.

10. (Original) The method of Claim 3 in which preferences are stored for each device from which requests for documents may be received.

11. (Original) The method of Claim 3 in which preferences are stored for each type of device from which requests for documents may be received.

12. (Original) The method of Claim 3 in which the preferences are stored on the device.

13. (Original) The method of Claim 3 in which the preferences are stored on the device using a cookie mechanism.

14. (Original) The method of Claim 1 in which the altering depends on the type of the device.

15. (Original) The method of Claim 14 also including receiving information from the device identifying the type of device.

16. (Original) The method of Claim 1 in which the altering is performed at a proxy server.

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17. (Original) The method of Claim 1 in which the altering is performed at an origin server.

18. (Original) The method of Claim 1 in which the device comprises a device that is not configured to display the entire document at one time.

19. (Original) The method of Claim 18 in which the device comprises a personal digital assistance, a hand-held device, or a telephone.

20. (Original) The method of Claim 1 in which the altering comprises date compression.

21. (Original) The method of Claim 1 in which the altering comprises word abbreviation.

22. (Original) The method of Claim 1 in which the altering comprises reducing the size of an image included in the original document.

23. (Original) The method of Claim 22 in which the reducing includes image compression, resampling, or conversion from color to black and-white.

24. (Original) The method of Claim 1 in which the digital document comprises a web page.

25. (Currently Amended) The method of Claim 1 also including segmenting the digital document into subdocuments, and transmitting fewer than all of the segments subdocuments in response to the request.

26. (Currently Amended) A method comprising:

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maintaining a database that defines a plurality of sets of at least one preferences, wherein the sets of at least one preference are associated with different client devices with respect to and are independent of an association with a web page, and wherein the sets of at least one preference define preferred alterations to be performed on full web pages requested by respective client devices that are not configured to display full web pages, the alterations making the documents more suitable for display on the respective client devices.

27. (Currently Amended) A method comprising:  
obtaining from a client device information about a set of at least one preferences with respect to preferred alterations to be performed on full documents requested by a the client device that is not configured to display the full documents, and  
associating the set of preferences with the client device in a database, the set being associated with the client device independent of an association with a document.

28. (Currently Amended) A method comprising:  
creating content for web pages to be served to types of client devices that are not configured to display full web pages, and  
storing information about transformations a plurality of sets of at least one preference defining at least one transformation that are is to be made to the full web pages to make them suitable for display on the client devices, the stored information associating sets of preferences each of the types of devices with being associated with a respective device independent of an association with a web page, and defining at least one transformations to be made to full web pages requested by that type of respective device.

29. (Previously Presented) The method of claim 1 in which the digital document comprises an e-mail.

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30. (Previously Presented) The method of claim 1 in which altering portions of a text comprises altering portions of a text based on preferences associated with a device and independent of an association with the digital document.

31. (Previously Presented) The method of claim 1 in which altering portions of a text comprises altering portions of a text based on preferences related to at least one capability of the device.

32. (Currently Amended) The method of claim ~~32~~1 in which altering portions of a text comprises altering portions of a text based on preferences related to at least one capability of the device, and independent of a relation to an ability of a user of the device.

33. (New) A network entity comprising:

a processor capable of receiving a set of at least one preference for altering digital documents to be displayed by a device, wherein the set of at least one preference is associated with the device and independent of an association with a digital document,

wherein the processor is capable of altering at least a portion of an original version of a digital document based upon the set of at least one preference to thereby produce a revised version of the digital document, and wherein the processor is capable of producing the revised version of the digital document such that the device is capable of displaying the revised version.

34. (New) A network entity according to Claim 33, wherein the network entity comprises an origin server, and wherein the processor is capable of transmitting the revised version of the digital document to the device after producing the revised version.

35. (New) A network entity according to Claim 33, wherein the processor is capable of receiving the original version of the digital document from an origin server in response to the origin server receiving a request for the digital document to be displayed by a device, the original

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version of the digital document being independent of an association with a preference for altering at least a portion of the original version to thereby produce the revised version.

36. (New) A network entity according to Claim 35, wherein the network entity comprises a proxy server, and wherein the processor is capable of transmitting the revised version of the digital document to the device after producing the revised version.

37. (New) A network entity according to Claim 35, wherein the network entity comprises a device, and wherein the processor is capable of driving a display to present the revised version of the digital document after producing the revised version.

38. (New) A network entity according to Claim 33, wherein the set of at least one preference is associated with the device based on a unique identifier of the device.

39. (New) A network entity according to Claim 33, wherein the set of at least one preference is associated with a type of device and independent of an association with a digital document, and wherein the processor is capable of receiving the set of at least one preference based on the type of device for which the revised version of the digital document is produced.

40. (New) A network entity according to Claim 33, wherein the processor is capable of altering at least a portion of the original version of the digital document including segmenting the digital document into a plurality of subdocuments, the revised version of the digital document including the subdocuments, and

wherein the processor is capable of transmitting a portion of the subdocuments to the device, and retaining the remaining portion of the subdocuments, after producing the revised version.

41. (New) A network entity according to Claim 40, wherein the processor is capable of segmenting the digital document into a plurality of ordered subdocuments, and wherein at

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least one of the portion of subdocuments transmitted to the device includes a link to an adjacent subdocument retained by the network entity.

42. (New) A network entity according to Claim 41, wherein at least one subdocument transmitted to the device includes the link such that, upon selection of the link, the processor is capable of receiving a request for the adjacent subdocument, and transmitting the adjacent subdocument to the device.

43. (New) A computer program product comprising at least one computer-readable storage medium having computer-readable program code portions stored therein, the computer-readable program code portions comprising:

a first executable portion for receiving a set of at least one preference for altering digital documents to be displayed by a device, wherein the set of at least one preference is associated with the device and independent of an association with a digital document; and

a second executable portion for altering at least a portion of an original version of a digital document based upon the set of at least one preference to thereby produce a revised version of the digital document, wherein the second executable portion is adapted to produce the revised version of the digital document such that the device is capable of displaying the revised version.

44. (New) A computer program product according to Claim 43, wherein the computer program product is adapted for operation by an origin server, and wherein the computer program product further comprises:

a third executable portion for transmitting the revised version of the digital document to the device after producing the revised version.

45. (New) A computer program product according to Claim 43, wherein the first and second executable portions are adapted for operation by a network entity, and wherein the computer program product further comprises:

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a third executable portion for receiving a request for the digital document to be displayed by a device, wherein the third executable portion is adapted for operation by an origin server, and wherein the third executable portion is adapted to transmitting the original version of the digital document to the network entity, the original version of the digital document being independent of an association with a preference for altering at least a portion of the original version to thereby produce the revised version.

46. (New) A computer program product according to Claim 45, wherein the network entity comprises a proxy server, and wherein the computer program product further comprises:

a fourth executable portion for transmitting the revised version of the digital document to the device after the second executable portion produces the revised version, the fourth executable portion being adapted for operation by the proxy server.

47. (New) A computer program product according to Claim 45, wherein the network entity comprises a device, and wherein the computer program product further comprises:

a fourth executable portion for displaying the revised version of the digital document after the second executable portion produces the revised version, the fourth executable portion being adapted for operation by the device.

48. (New) A computer program product according to Claim 43, wherein the set of at least one preference is associated with the device based on a unique identifier of the device.

49. (New) A computer program product according to Claim 43, wherein the set of at least one preference is associated with a type of device and independent of an association with a digital document, and wherein the first executable portion is adapted to receive the set of at least one preference based on the type of device for which the revised version of the digital document is produced.



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50. (New) A computer program product according to Claim 43, wherein the second executable portion is adapted to alter at least a portion of the original version of the digital document including segmenting the digital document into a plurality of subdocuments, the revised version of the digital document including the subdocuments, and wherein the computer program product further comprises:

a third executable portion for transmitting a portion of the subdocuments to the device, and retaining the remaining portion of the subdocuments, after the second executable portion produces the revised version.

51. (New) A computer program product according to Claim 50, wherein the third executable portion is adapted to segment the digital document into a plurality of ordered subdocuments, and wherein the at least one of the portion of subdocuments transmitted by the third executable portion to the device includes a link to an adjacent subdocument retained by the network entity.

52. (New) A computer program product according to Claim 51, wherein at least one subdocument transmitted by the third executable portion to the device includes the link such that, upon selection of the link, the third executable portion is further capable of receiving a request for the adjacent subdocument, and transmitting the adjacent subdocument to the device.